

WEDNESDAY, 14 SEPTEMBER	
08:00 - 09:00	Registration
09:00 - 09:30	Opening session
09:30 - 10:30	Invited talk Giovanni Iacca, University of Trento - Italy <i>When Explainable AI and Evolutionary Computation meet</i>
10.30 - 11:45	Morning Session M1
	Michele Braccini, Edoardo Barbieri and Andrea Roli The role of dynamical regimes of online adaptive BN-robots in noisy environments
	Paolo Baldini and Andrea Roli Online adaptation of robots controlled by nanowire networks: A preliminary study
	Eric Medvet and Francesco Rusin Impact of Morphology Variations on Evolved Neural Controllers for Modular Robots
11:45 - 12:15	Coffe break
12:15 - 13:30	Morning Session M2
	Johannes Josef Schneider, Alessia Faggian, Aitor Patino Diaz, Jin Li, Silvia Holler, Federica Casiraghi, Lorena Cebolla Sanahuja, Hans-Georg Matuttis, Martin Hanczyc, David Barrow, Mathias Weyland, Dandolo Flumini, Peter Eggenberger Hotz, Pantelitsa Dimitriou, William David Jamieson, Oliver Castell, Patrik Eschle and Rudolf M. Fuchslin Network Creation During Agglomeration Processes of Polydisperse and Monodisperse Systems of Droplets
	Hans-Georg Matuttis and Johannes Josef Schneider Computational investigation of the clustering of droplets in widening pipe geometries
	Johannes Schneider, Alessia Faggian, William David Jamieson, Mathias Weyland, Jin Li, Oliver Castell, Hans-Georg Matuttis, David Barrow, Aitor Patino Diaz, Lorena Cebolla Sanahuja, Silvia Holler, Federica Casiraghi, Martin Hanczyc, Dandolo Flumini, Peter Eggenberger Hotz and Rudolf M. Fuchslin Artificial Chemistry Performed in an Agglomeration of Droplets with Restricted Molecule Transfer
13:30 -14:45	Lunch
14:45 - 16:00	Afternoon Session A1
	Lorenzo Del Moro, Beatrice Ruzzante, Maurizio Magarini, Pier Luigi Gentili, Giordano Rampioni, Andrea Roli, Luisa Damiano and Pasquale Stano Chemical Neural Networks and Semantic Information investigated through Synthetic Cells
	Federica Senatore, Marco Villani and Roberto Serra On the growth of chemical diversity
	Federica Senatore, Roberto Serra and Marco Villani Modelling wet-dry cycles in the binary polymer model
16:00 - 16:15	Coffe break
16:15 - 17:30	Afternoon Session A2
	Erwan Plantec, Bert Wang-Chak Chan, Gautier Hamon, Mayalen Etcheverry, Clément Moulin-Frier and Pierre-Yves Oudeyer Flow Lenia: Mass conservation for the study of virtual creatures in continuous cellular automata
	Franco Cicirelli, Emilio Greco, Antonio Guerrieri, Giandomenico Spezzano and Andrea Vinci Collaborative learning over Cellular Automata
18:00 - 20:00	Walking tour in the town centre
20:00 - 21:30	Welcome party at ancient building "favorita"

THURSDAY, 15 SEPTEMBER		
09:00 - 10:00	Invited talk Leonardo Vanneschi, NOVA University of Lisbon - Portugal <i>Genetic Programming: Introduction and Applications. A Perspective after thirty years from the first John Koza's book</i>	
10.00 - 11:15	Morning Session M3	
	Clara Pizzuti and Annalisa Socievole	Kernel-based early fusion of structure and attribute information for detecting communities in attributed networks
	Bruno Galuzzi and Chiara Damiani	An efficient implementation of Flux Variability Analysis for metabolic networks
	Elisa Flori, Yi Zhu, Sandra Paterlini, Francesco Pattarin and Marco Villani	Spread of perturbations in supply chain networks: the effect of the bow-tie organization on the resilience of the global automotive system
11:15 - 11:45	Coffe break	
11:45 - 13:00	Morning Session M4	
	Gianfranco Lombardo, Mattia Pellegrino, Michele Tomaiuolo, Stefano Cagnoni, Monica Mordonini, Mario Giacobini, Agostino Poggi	Fine-Grained Agent-Based Modeling to Predict Covid-19 Spreading and Effect of Policies in Large-Scale Scenarios
	Eric Medvet, Giorgia Nadizar, Luca Manzoni	JGEA: a Modular Java Framework for Experimenting with Evolutionary Computation
	Marco Villani, Gianluca D'Addese, Stuart A. Kauffman and Roberto Serra	Pseudo-attractors in Random Boolean Network Models (and possible approaches to Single-Cell Data)
13:00 - 14:15	Lunch	
14:15 - 15:30	Afternoon Session A3	
	Berardina De Carolis, Vincenzo Gattulli, Donato Impedovo and Giuseppe Pirlo	WanDa: A Mobile Application to Prevent Wandering
	Irene Azzali, Nicole Dalia Cilia, Claudio De Stefano, Francesco Fontanella, Mario Giacobini and Leonardo Vanneschi	Vectorial GP for Alzheimer's Disease Prediction Through Handwriting Analysis
	Davide Maspero, Fabrizio Angaroni, Lucrezia Patruno, Daniele Ramazzotti, David Posada and Alex Graudenzi	Exploring the solution space of cancer evolution inference frameworks for single-cell sequencing data
15:30 - 15:45	Coffe break	
15:45 - 17:00	Afternoon Session A4	
	Elpida Tzafestas	Cultural Innovation Triggers Inequality in a Sharing Economy
	Carolina Crespi Georgia Fargetta Rocco Alessandro Scollo and Mario Pavone	An agent-based model for crowd simulation
	Pablo Gervás	Evolutionary Stitching of Plot Units with Character Threads
17:00 - 17:30	WIVACE Community meeting	
20:30 - 23:00	Social dinner at restaurant "Re Ferdinando"	

FRIDAY, 16 SEPTEMBER

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10.00 - 11:15	Morning Session M6	
	Giulia Di Capua, Mario Molinara, Francesco Fontanella, Claudio De Stefano, Nicola Femia and Nunzio Oliva	Magnetic Devices Behavioral Modeling based on Genetic Programming and Neural Networks
	Karina Brotto Rebuli, Niccolò Tallone, Mario Giacobini and Leonardo Vanneschi	Single and Multi-objective Genetic Programming Methods for Prediction Intervals
	Liah Rosenfeld and Leonardo Vanneschi	EGSGP: an Ensemble System Based on Geometric Semantic Genetic Programming
11:15 - 11:45	Coffe break	
11:45 - 13:00	Morning Session M7	
	Alessandro Bria, Tiziana D'Alessandro, Paolo De Ciccio and Francesco Fontanella	A novel evolutionary approach for Neural Architecture Search
	Mireya Zapata, Vanessa Vargas, Ariel Cagua, Daniela Alvarez, Bernardo Vallejo and Jordi Madrenas	Real-time monitoring tool for spike activity in a SIMD architecture
	Fabio D'Andreagiovanni, Hicham Lakhlef and Antonella Nardin	Green design of Single Frequency Networks by Multiband Robustness and a hybrid metaheuristic
13:00 - 13:15	Closing session	
13:15 - 14:30	Lunch	